

25



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/773,935	02/02/2001	Jae Sung Kim	YHK-062	7194
34610	7590	07/12/2006	EXAMINER	
FLESHNER & KIM, LLP			SAID, MANSOUR M	
P.O. BOX 221200			ART UNIT	
CHANTILLY, VA 20153			PAPER NUMBER	
			2629	
DATE MAILED: 07/12/2006				

Please find below and/or attached an Office communication concerning this application or proceeding.

**Supplemental
Notice of Allowability**

Application No.

09/773,935

Examiner

MANSOUR M. SAID

Applicant(s)

KIM ET AL.

Art Unit

2629

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5/15/06.
2. ☒ The allowed claim(s) is/are 1-23.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 1/19/06.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


RICHARD HUERPE

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

DETAILED ACTION

SUPPLEMENTAL EXAMINER'S AMENDMENT

1. An extension of time under 37 CFR 1.136(a) is required in order to make an examiner's amendment, which places this application in condition for allowance. During a telephone conversation conducted With **Mr. Kim, Daniel Y.J., on January 19, 2006** requested an extension of time for one MONTH (S) and authorized the **Director to charge Deposit Account No. 16-0607** the required fee of **\$120** for this extension and authorized the following examiner's amendment. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

2. The application has been amended as follows.

IN THE CLAIMS

In claim 1, line 5, after "discharge cells" please insert –; wherein a scanning pulse is applied to the trigger electrodes during the address period; a first sustaining pulse is applied to the trigger electrodes during the sustaining period; and a second sustaining pulse is applied to the sustaining electrodes in such a manner to be alternate with the first sustaining pulse applied to the trigger electrodes--.

In claim 8, line 12, after "first sustaining pulse" please insert –applied to the trigger electrodes--.

In claim 22, line 5, after “discharge cells” please insert --; wherein a scanning pulse is applied to the trigger electrodes during the address period; a first sustaining pulse is applied to the trigger electrodes during the sustaining period; and a second sustaining pulse is applied to the sustaining electrodes in such a manner to be alternate with the first sustaining pulse applied to the trigger electrodes--.

Allowable Subject Matter

3. Claims 1-20 are allowed.

The following is an examiner's statement of reasons for allowance: Claims 1-20 are allowed since certain key features of the claimed invention are not taught or fairly suggested by prior art. **In claims 1 and 22**, “wherein a scanning pulse is applied to the trigger electrodes during the address period; a first sustaining pulse is applied to the trigger electrodes during the sustaining period; and a second sustaining pulse is applied to the sustaining electrodes in such a manner to be alternate with the first sustaining pulse applied to the trigger electrodes”. **In claim 8**, “applying a scanning pulse to the trigger electrodes during the address period; applying a first sustaining pulse to the trigger electrodes during the sustaining period; and applying a second sustaining pulse to the sustaining electrodes in such a manner to be alternate with the first sustaining pulse applied to the trigger electrodes”. **In claim 10**, “a first sub-field for applying a scanning voltage pulse to odd-numbered trigger electrodes during the address period; and a second sub-field for applying a scanning voltage pulse to even-numbered trigger electrodes during the address period”. **In claim 16**, “a first sub-field for applying a scanning

Art Unit: 2629

voltage pulse to even-numbered trigger electrodes during the address period; and a second sub-field for applying a scanning voltage pulse to odd-numbered trigger electrodes during the address period". The closest prior art Ray et al. (6,504,519 B1) teaches a plasma display includes a sustaining electrodes group including at least three electrodes; and a sustaining electrode driver for applying the same polarity of voltage signals to side electrodes positioned at the outermost portions of each side of the center electrode, and Kim et al. (5,747,939) teaches generating auxiliary discharge by forming the trigger electrode and also auxiliary discharge is generated by having the protruding branch electrodes of the trigger electrode extended and arranged to the inside of each discharge cell, however, singularly or in combination with other prior art, fail to anticipate or render the above underlined limitations obvious.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MANSOUR M. SAID whose telephone number is (571) 272-7679. The examiner can normally be reached on MF (8:30-6:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, BIPIN SHALWALA can be reached on (571) 272-7681. The fax phone


Art Unit: 2629

number for the organization where this application or proceeding is assigned is (571) 272-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mansour M. Said

6/09/06



RICHARD HJERPE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600